

Page 1 of 7

1646

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/445,614

DATE: 04/06/2001

TIME: 10:45:39

Input Set : A:\T1481.txt

Output Set: N:\CRF3\04062001\I445614.raw

ENTERED

4 <110> APPLICANT: Bonnert, Timothy Peter 6 <120> TITLE OF INVENTION: HUMAN VANILLOID RECEPTOR-LIKE RECEPTOR 9 <130> FILE REFERENCE: T1481 11 <140> CURRENT APPLICATION NUMBER: 09/445,614 12 <141> CURRENT FILING DATE: 1999-12-08 14 <150> PRIOR APPLICATION NUMBER: 9827016.8 15 <151> PRIOR FILING DATE: 1998-12-08 17 <160> NUMBER OF SEQ ID NOS: 19 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0 21 <210> SEQ ID NO: 1 22 <211> LENGTH: 2469 23 <212> TYPE: DNA 24 <213> ORGANISM: Homo sapiens 26 <400> SEQUENCE: 1 27 cacgaggeeg acgegeaget gggaggaaga caggaceett gacateteea tetgeacaga 60 28 ggtcctggct ggaccgabca gcctcctcct cctaggatga cctcaccctc cagctctcca 120 29 qttttcaggt tggagacatt agatggaggc caagaagatg gctctgaggc ggacagagga 180 30 aagetggatt ttgggagegg getgeeteee atggagteae agtteeaggg egaggaeegg 240 31 aaattegeee eteagataag agteaacete aactacegaa agggaacagg tgeeagteag 300 32 coggatocaa accgatttga cogagatogg ctottcaatg oggtotocog gggtgtococ 360 33 gaggatetgg etggaettee agagtaeetg ageaagaeea geaagtaeet eacegaeteg 420 480 34 gaatacacag agggeteeac aggtaagaeg tgeetgatga aggetgtget gaacettaag 35 gacggagtca atgcctgcat tctgccactg ctgcagatcg acagggactc tggcaatcct 540 36 cagecectgg taaatgeeea gtgeacagat gaetattaee gaggeeacag egetetgeae 600 37 atcgccattg agaagaggag tctgcagtgt gtgaagctcc tggtggagaa tggggccaat 660 38 gtgcatgccc gggcctgcgg ccgcttcttc cagaagggcc aagggacttg cttttatttc 720 39 ggtgagetae ceetetettt ggeegettge accaageagt gggatgtggt aagetaeete 780 40 ctggagaacc cacaccagcc cgccagcctg caggccactg actcccaggg caacacagtc 840 41 ctgcatgccc tagtgatgat ctcggacaac tcagctgaga acattgcact ggtgaccagc 900 42 atgtatgatg ggctcctcca agctggggcc cgcctctgcc ctaccgtgca gcttgaggac 960 43 atccgcaacc tgcaggatct cacqcctctg aagctggccg ccaaggaggg caaqatcgag 1020 44 attttcaggc acatectgca gegggagttt teaggaetga gecaeettte eegaaagtte 1080 45 accgagtggt qctatggqcc tgtccgggtg tcgctgtatg acctggcttc tgtggacagc 1140 46 tgtgaggaga actcagtgct ggagatcatt gcctttcatt gcaagagccc gcaccgacac 1200 47 cgaatggtcg ttttggagcc cctgaacaaa ctgctgcagg cgaaatggga tctgctcatc 1260 48 cccaagttct tcttaaactt cctgtgtaat ctgatctaca tgttcatctt caccgctgtt 1320 49 gcctaccatc agcctaccct gaagaagcag gccgccctc acctgaaagc ggaggttgga 1380 50 aactecatge tgctgaeggg ceacateett atectgetag gggggateta ceteetegtg 1440 51 ggccagctgt ggtacttctg gcggcgccac gtgttcatct ggatctcgtt catagacagc 1500 52 tactttgaaa teetetteet gtteeaggee etgeteacag tggtgteeca ggtgetgtgt 1560 1620 54 aacctgettt actatacaeg tggettecag cacacaggea tetacagtgt catgatecag 1680 55 aaggtcatcc tgcgggacct gctgcgcttc cttctgatct acttagtctt ccttttcggc 1740 56 ttcgctgtag ccctggtgag cctgagccag gaggcttggc gccccgaagc tcctacaggc 1800 57 cccaatgcca cagagtcagt gcagcccatg gagggacagg aggacgaggg caacggggcc 1860 58 cagtacaggg gtatcctgga agcctccttg gagctcttca aattcaccat cggcatgggc 1920 59 gagetggeet tecaggagea getgeaette egeggeatgg tgetgetget getgetggee 1980

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63 accgttggca ctaagccaga tggcagcccg gatgagcgct ggtgcttcag ggtggaggag
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80 Gly Ser Gly Leu Pro Pro Met Glu Ser Gln Phe Gln Gly Glu Asp Arg
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84 Gly Ala Ser Gln Pro Asp Pro Asn Arg Phe Asp Arg Asp Arg Leu Phe
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90 Thr Ala Cys Cys Thr Gly Ala Gly Cys Ala Ala Gly Ala Cys Cys Ala
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94 Cys Thr Cys Gly Glu Asp Leu Ala Gly Leu Pro Glu Tyr Leu Ser Lys
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96 Thr Ser Lys Tyr Leu Thr Asp Ser Glu Tyr Thr Glu Gly Ser Thr Gly
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                                                        190
100 Ala Cys Ile Leu Pro Leu Leu Gln Ile Asp Arg Asp Ser Gly Asn Pro
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102 Gln Pro Leu Val Asn Ala Gln Cys Thr Asp Asp Tyr Tyr Arg Gly His
103
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                                                 220
104 Ser Ala Leu His Ile Ala Ile Glu Lys Arg Ser Leu Gln Cys Val Lys
105 225
                                             235
                        230
106 Leu Leu Val Glu Asn Gly Ala Asn Val His Ala Arg Ala Cys Gly Arg
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108 Phe Phe Gln Lys Gly Gln Gly Thr Cys Phe Tyr Phe Gly Glu Leu Pro
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                                     265
110 Leu Ser Leu Ala Ala Cys Thr Lys Gln Trp Asp Val Val Ser Tyr Leu
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Input Set : A:\T1481.txt

Output Set: N:\CRF3\04062001\I445614.raw

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113		290					295					300				
114	Gly	Asn	Thr	Val	Leu	His	Ala	Leu	Val	Met	Ile	Ser	Asp	Asn	Ser	Ala
115	305					310					315					320
116	Glu	Asn	Ile	Ala	Leu	Val	Thr	Ser	Met	Tyr	Asp	Gly	Leu	Leu	Gln	Ala
117					325					330					335	
118	Gly	Ala	Arg	Leu	Cys	Pro	Thr	Val	Gln	Leu	Glu	Asp	Ile	Arg	Asn	Leu
119				340					345					350		
120	Gln	Asp	Leu	Thr	Pro	Leu	Lys	Leu	Ala	Ala	Lys	Glu	Gly	Lys	Ile	Glu
121			355					360					365			
122	Ile	Phe	Arg	His	Ile	Leu	Gln	Arg	Glu	Phe	Ser	Gly	Leu	Ser	His	Leu
123		370	_				375	_				380				
124	Ser	Arg	Lys	Phe	Thr	Glu	Trp	Cys	Tyr	Gly	Pro	Val	Arg	Val	Ser	Leu
	385	_	-			390	-	-	-	-	395		_			400
126	Tyr	Asp	Leu	Ala	Ser	Val	Asp	Ser	Cvs	Glu	Glu	Asn	Ser	Val	Leu	
127	•	•			405		•		•	410					415	
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129				420		-	_		425		,		,	430		
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	Phe	Thr	Ala	Val	Ala	Tvr		Gln	Pro	Thr	Len		Lvs	Gln	Ala	Δla
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		His	Leu	Lvs	Ala		Val	Glv	Asn	Ser		Leu	Len	Thr	Glv	
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	Tle	Leu	Tle	Len		Glv	Glv	Tle	Tvr		Len	Val	Glv	Gln		Trp
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141	-1-		515	5	5			520					525			
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143	-1-	530					535					540			,	501
	Gln	Val	Leu	Cvs	Phe	Leu		Tle	Glu	Trp	Tvr		Pro	Leu	Len	Va l
	545			010		550			014		555	Lou		200	Lou	560
		Ala	Len	Val	Leu		Tro	Len	Asn	Leu		Tvr	Tvr	Thr	Ara	
147				, 41	565			200		570		-1-	-1-		575	
	Phe	Gln	His	Thr		Tle	Tvr	Ser	Va 1		Tle	Gln	Lvs	Val		T.eu
149	1 110	0111		580	011	110	- 1 -	DCI	585	ricc	110	0111	шуз	590	110	ЦСи
	Arα	Asp	Len		Ara	Phe	T.eu	T.e.n			T.611		Dhe		Dhe	Glv
151	9		595		9		DCu.	600	110	- 1 -	100	,	605	LCu	1110	OI,
	Phe	Ala		Δla	T.e11	Val	Ser		Ser	Gln	Glu	Δla		Δrα	Pro	Glu
153	1110	610	, u.	mu	Dea	· uı	615	пси	DCI	0111	Olu	620	111	nrg	110	Olu
	Δla	Pro	Thr	Glv	Pro	Δsn		Thr	Glu	Ser	Val		Pro	Mot	Glu	Glv
155		110	7 117	Gry	110	630	AIG	1 11 I	JIU	Ser	635	GIII	-10	MEL	GIU	640
		Glu	Δen	Glu	Glv		Glu	Δla	Gln	ጥ፣፣ም		C117	Tlo	Lau	Gl II	
157	0111	JIU	v2h	GIU	645	non	эту	лта	GTII	650	тту	ату	TTE	⊔eu	655	пта
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159	JUL.	±.cu	JIU	660	1 116	ny 3	r 116	T +1T	665	G T Y	MCL	GIY	JIU	670	лта	t 11C
エンジ				000					005					070		

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16 16	) Gln (	Glu	Gln 675	Leu	His	Phe	Arg	Gly 680	Met	Val	Leu	Leu	Leu 685	Leu	Leu	Ala	
16	2 Tyr '			Leu	Thr	Tyr			Leu	Leu	Asn			Ile	Ala	Leu	
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	3 Trp (	Cys	Arg	Lys		Gln	Arg	Ala	Gly		Met	Leu	Thr	Val		Thr	
16		_		740		_	_		745			_,	_	750	~ 1		
17: 17:	) Lys : I	Pro	755	GIY	Ser	Pro	Asp	760	Arg	Trp	Cys	Phe	Arg	Val	Glu	Glu	
	val i	Asn		Ala	Ser	Trp	Glu		Thr	Leu	Pro	Thr		Cys	Glu	Asp	
17		770		_		_	775					780		_		_	
	Pro	Ser	Gly	Ala	Gly		Pro	Arg	Thr	Leu		Asn	Pro	Val	Leu		
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17		FIO	PIO	пуз	805	АЗР	Giu	мэр	Сту	810	261	GIU	Giu	ASII	815	Vai	
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VERIFICATION SUMMARY

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